

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2005/050896

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G06K9/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>BOVIK, AL (EDITOR); JAIN, ANIL K. (AUTHOR): "Handbook of Image and Video Processing, Section 10.5 Fingerprint Classification and Matching" 2000, ACADEMIC PRESS, SAN DIEGO, US 275840 , XP002328913 ISBN: 0-12-119790-5 cited in the application the whole document</p> <p>-----</p> <p>-/-</p>	1-13

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the International search

25 May 2005

Date of mailing of the International search report

03/06/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category <sup>a</sup>	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JAIN A K ET AL: "An identity-authentication system using fingerprints" PROCEEDINGS OF THE IEEE, IEEE, NEW YORK, US, vol. 85, no. 9, September 1997 (1997-09), pages 1365-1388, XP002261867 ISSN: 0018-9219 page 1369 - page 1373 page 1378 - page 1379 -----	1-13
X	US 6 185 318 B1 (JAIN ANIL K ET AL) 6 February 2001 (2001-02-06) the whole document -----	1-13
A	US 6 578 436 B1 (GANAPATHI SRINAVASAN K ET AL) 17 June 2003 (2003-06-17) cited in the application the whole document -----	2,3,7,8, 10,11
A	EP 1 018 695 A (NIPPON TELEGRAPH AND TELEPHONE CORPORATION) 12 July 2000 (2000-07-12) abstract; figures 26A-C,27,28 -----	1-13
A	SHIGEMATSU S ET AL: "A SINGLE-CHIP FINGERPRINT SENSOR AND IDENTIFIER" IEEE JOURNAL OF SOLID-STATE CIRCUITS, IEEE INC. NEW YORK, US, vol. 34, no. 12, December 1999 (1999-12), pages 1852-1859, XP001149326 ISSN: 0018-9200 the whole document -----	1-13
A	SHIGEMATSU S ET AL: "A 500dpi 224x256-pixel single-chip fingerprint identification LSI with pixel-parallel image enhancement and rotation schemes" SOLID-STATE CIRCUITS CONFERENCE, 2002. DIGEST OF TECHNICAL PAPERS. 2002 IEEE INTERNATIONAL FEB 3-7, 2002, PISCATAWAY, NJ, USA, IEEE, vol. 1, 2002, pages 354-473, XP010585603 ISBN: 0-7803-7335-9 the whole document -----	1-13

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